SIXPENCE

AUGUST 1943

AMATEUR RADIO

THE
OFFICIAL ORGAN
OF THE
WIRELESS INSTITUTE
OF
AUSTRALIA



Published by the Victorian Division

AMATEUR-RADIO

INCORPORATING THE N.S.W. DIVISIONAL BULLETIN

Vol 11. No. 8.

August, 1943.

FREQUENCY MODULATION

Part II - Continued.

By R. A. Priddle - VK2RA

T.R.F. REGENERATIVE F.M. RECEIVERS... In QST for May 1943 a FM receiver is described which can be built without any special components. The Circuit is shown in Fig., the coil values given being for the U.S. 45 Mc PM Prophest Fand.

The audio amplifier should have high gain and high fidelity if the advantages of FM are to be fully realised.

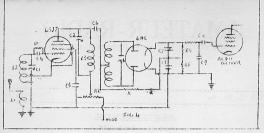
The 68J7 RF amplifior-limiter is regenerative and behaves like an unstable ECO whose low-Q circuit allows it to lock-in with the incoming signal and follow its frequency variations. The discriminator is normal.

Values of components are not critical except that R4, R5 and C7, C8 should be equal for discriminator balance.

If the tuning condensers Cl, C2, C3 are gauged, the circuits can be aligned by spreading or squeezing the coils. The two halves of L4 must be kept symmetrical - about L3. Resonance of C2.L3 with cl, L2 is indicated by the 6537 going into restilation at a low setting of the regeneration control R2. Resonance of C3, L4 is indicated by maximum woltage developed across R4 or R5.

The discriminator is checked for belance by connecting the voltmeter across R4 and R5 (both) and tuning C1 to either side of resonance, when the voltage should be zero at resonance and should rise to equal and opposite values on either side.

Operation of the receiver is similar to that of an ordinary T.R.F. receiver.



C1,G2,G3 C4,G6 C5,G9 C7,G8		25mmfd 10mmfd mica 100mmfd mica 25mmfd mica	R1 R2 R3,R4,R5 R6	25 meg 1 meg 1 meg 05 "	dwatt
	L1 L2 L3 L4	5 turns No 14 5 turns No 14	dia close	spacod	

feart dals has ally did an xxx in is terrifore other of

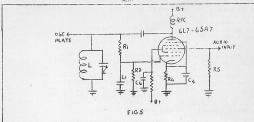
admit L3.

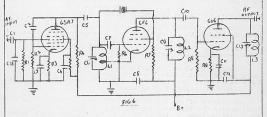
PART 3 - TRANSMITTERS

An FM transmitter is similar to a CW transmitter except that the oscillator is frequency modulated, by either mechanical or electrical means. For instance, an E.C.O. could be frequency modulated by attaching one plate of a scondenser to a loudspeaker voice coil which would vary the condenser spacing in accordance with the voice frequencies.

The most usual modulator however, varies the oscillator frequency by electrical means and is known as a reactance modulator, of which Fig. 5 is typical.

R1 is 50,000 to 100,000 ohms which is large compared to the reactance of C1 (capacity 5-10mmfd) so that the current through R1, C1 is nearly in phase with the RF voltage in the oscillator tank IC. The voltage across Cl lags 90 degrees behind the current, and this is the grid voltage of the 6L7.





0105 0210mmfd 03,4,5,8 10,11,12.0.0015 06,950mmfd 070.0001	R1.4,70.2 meg R2100 ohns R31500 ohns R5;8, .0.1 meg R660,000 ohns R9250 ohns
C13 2510ffd	All - watt
025 100maf4	

All coils No 22 close wound on Au form II....342 turns tapmed at 10 turns L2. ...15 turns L5..... 6 turns

The plate current of the 6D7 is in phase with the grid voltage, so that the RF plate current of the 6D7 legs 90 degrees bohind the RF voltage in the casillator tank. Here, the 6D7 behaves as if it were an inductance coupled errors the task, the value of the inductance depending upon the plate current of the 6D7. This plate current varies with the audio voltage applied to 0.3 grid and so the speech variations alter the escillator froumency.

Voltago regulation is more important than with an ordinary E.C.O., so that the use of a regulator tube is almost essential.

With an oscillator frequency of 7 M/cs and tank conduser of 800 mmfd, 2 wolfs audio will produce a deviation of about 2 K/cs. If the final is operating on 28 M/cs, the deviation at this frequency will be 4 x 2 equals 8K/cs. For narrow-bens Fs (deviation 4 k/cs) the made input may be reduced, or the crystal controlled excitor of Fg.6 ms be used.

A CRYSTAL CONTROLLED FM EXCITER... This unit consists of a 656 E.O.O. with crystal connocted between screen

and control grid so as to provide crystal locking.

Over a considerable portion of the range of G6 the frequency is controlled by the crystel, but for best operation C6 should be opposed near the capacity where control is lost. The plate are cuit of the 676 is tuned to brice the lemmatal frequency and further doubling is offected in the 676 stage.

The 68A7 reactance modulator is connected across 11,06 and requires about 3 volts audio to very the 7M/cs oscillator 750 cycles either side of the crystal frequency. This will give a deviction of 3 K/cs at 28 M/cs.

Adjustment of the oscillator can be made by using a plate Millaumotor and listening to the The boat in a receiver. A point will be found in tuning 60 where the plate current "kicka" and the frequency changes rapidly. The oscillator abuild be obserted as near as possible to this setting, elicious, both 60 and 69 may need do-tuning slightly for stille ossertion.

CONCLUSION ... It is hoped that these articles may be of some benefit to those who have not had access to over-seas literature on FM. The general principles have been discussed, and the adapter and exciter described should be not to Home who wish to try out negrow-beed Frequency Modulation.

A VACUUM TUBE OPERATED TIME DELAY RELAY

By

... A. S. Moyo, VK2BV ...

Here is the circuit of a relay actuated by any old power tube with which it is possible to accurately time the exposure of an enlarger or printer to a predetermined time by setting a calibrated verteble resistor and pressing a pash button. At the end of the desired interval the relay is automatically copied.

The unit makes use of gear generally relegated to the junk box.

As shown the circuit values give a time delay from about 1/50 second to 3% seconds. This time may be increased to minutes by increasing the variable resistor or grid condensor or both. However after some tone of thousends of exposures with the roley, it was found that the most useful range was from 1/4 to 2 seconds. The illumination of both the onlarger and printer was adjusted till 1/2 second exposure through the thinnest printable negative was just right on 481 and VPA Kedak papers respectively. It was then found that all other exposures came within the above range with the exception of a few dark negatives or a big enlargement, when an increase may be had by closing switch 3 and counting the relay clicks.

Tubo types 46 (triodo), 45, 47 (triodo), 2.3 have all been triod and found satisfactory and I deresay the indirectly heated type should work just as well.

The power supply need not be filtered and may consist of any old power transformer giving the required filament voltages and a high voltage secondary from 200 to 400 volts.

The 2 mfd condensor across the relay provents chatter and is the lowest value that can be used here. When the relay is in the open position the bettem set of contacts are closed and are in series with the push-button. This graves uniform discharge to the grid condensor each time the button is reconsider. The 400 ohm reasster is included to stop sparking across the button and may be varied down to 1000 ohms without any trouble.

The grid condensor was obtained by wiring in parellel 1, 2 and 4 and units which can be rated to work as low as 100 volts but must be in good condition. Any loakage causes the idio current of the tube to be too high and the relay will not open easily. This rules out the use of Electrolytic condensors,

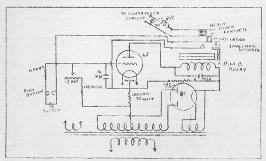
The 50,000 and the 10,000 chm resistors as shown are wated quite high for wettage but this prevents heating and consequently any change in the calibrated time. Smaller waters resistors may be used in any sotup not requiring your accurate timing.

The relay was made from an ele P.M.G. the rewound with about 0 S.W.G. onemolled ware till the bobbin was full. On top, in place of the regular contacts were mounted the contacts from a two circuit phone jack. The main contact points were made of silver and were it not an offence to deface the coin of the realm, I would suggest a coin would be just right! The smaller contacts in series with the button were the original cone of the phone jack.

Adjust the points so that the top ones are just opposed when the lower ones are making contact. So when the butten is held closed or the switch S closed the rolar clicks but doesn't break the main contacts. The original relay closed at 12 mas, and opposed at 8 mas.

It may be necessary to include a choke in series and a condenser across the main points if B.O.L. trouble is encountared. An old R F choke and a O.Ol mfd condenser get rid of all clicks in my case.

To collimate the variable resistor, in the case an ordinary theorem prienties of minute was control and a paper scale merked accordingly. This calibration still stude of, after nearly 12 ments continuous use.



WIRELESS INSTITUTE OF AUSTRALIA

.. Victorian Division ..

Prosident's annual Report for Year ending 30th June, 1943.

I have the pleasure in presenting herewith the report on the activities of the Victorian Division for the year ended 30th June 1943, and as finance is, purhaps the most important itom of any organisation, I will deal with this matter first.

As the belance shoot (a copy will be forwarded to each member) discloses, over the past year receipts amounted to £159-7-6 whilst expenses of mengament, including rent £95-4-6 amounted to £170-9-4. After providing £55-12-6 for deprociation and £100-ing for £11-12-7 loss on the publication of Ameteur Reddo a deficit of \$78-12-11 results, which figure compress feverebly with other years. Rent may be considered excessive in comparison with our receipts but the Council of this Division has £40000 maintained that our reserve should be used in time of emergency to ensure permaney of our rooms.

The only change in our assets during the your was the sale of our holding of \$500 in Grain Elevators Board Debantures and the re-investment of \$500 in Commonwealth Government Inscribed stock. At the time of the sale it was thought that our cash belance would be insufficient to most expenses until the end of the year. This did not prove to be the case and the amount of \$100 will probably be re-invested in the next Commonwealth Loan,

MEMBERSHIF... For the first time since 1939 the number of financial members in this Division has shown a marked increase..from 104 at the end of last year to 148 at present. Amongst the additional 44 are many new members, while some could almost be classed as stoin, as it is some years since they had taken any interest in Institute affairs. However, the fact that they have joined, or re-joined as the ease may be is proof of their newly found interest in current and future Institute activities and I have much pleasure in welcoming them to our renks. I hope that they will be fit to take an active interest in all Institute affairs and thus help to preserve and extend this Institute as a virile organisation for the advancement of all radio Russ in this State, and indeed the whole of Australia. Leter in the evening Membership Certificates will be handed to all those present who are entitled to receive them.

EMERGENCY COMMUNICATION NETWORK...Probably the most important activity during the rear and one which has certainly aroused the most interest amongst Hams both within the outside the Institute, has been the negetiations in respect of an Emergency Communication Notwork.

Since the outbreak of war Council has been watching for opportunities to prove the Amsteure! Veilue to the community and fellowing upon the entire of Japan into the war and the consequent accoloration of ARP activities in this state, stups were taken to investigate the possibilities of some achome of radio communication. The Secretary unofficially obtained the view of ARP officials whose opinion was that existing facilities were adequate for any Somepaney.

With the granting of pormission to other Divisions to ostablish networks. Council deputised Ivor Morgan VKSDh to draw up a scheme to cover the motropolitan area, 300 circulars were sent to motropolitan Runs to ascertain the number interested and available to operate stations in any scheme. A very satisfactory response was received and the proposed scheme was then submitted to the Chief in Raid Warden.

Our dologation was very well received but after due consideration we were advised that the schome would be superfluent as a radio notwork already operates in the metropolitan area in conjunction with the police Department. Alternative schomes were discussed and a second circular was forwarded to 105 country amtours. Once again a most satisfactory response was received and it is now proposed to discuss further EUI suggestions concerning both metropolitan and country hams with the Senior Radio Inspector of this State.

OFFICIAL CUSTORY OF TRANSMITTING GEAR. When this order came entations were made to the Radio Inspector to allow the containers to be opened, enabling the gear to be re-packed in a manner suitable for transportation. This was agreed to and many Hams availed themselves of the opportunity to ensure that their goar would suffer no damage.

PRISONER OF WAR FUID... Members responded well to appeals for donations to a P.O.W. Fund, appeared by Foderal Headquarters, and an amount of 215,13,6 which includes 55 from Divisional funds has already been forwarded to FFR and a further sum of £1.16.0 is being hold. The despatch of percels to hams known to be Prisoners of war is being attended to by FFR and whilst too early for us to have received any acknowledgement of receipt of percels we can well imagine how pleased those hams who are P.O.W. would be to receive them. Further denations may be forwarded to the Treasurer.

LICENCING OF RADIO SERVICENEN. . When this was first mooted some sale of readte parts would be restricted to servicemen. A letter was forwarded to the Department for War Organisation of Industry pointing out our special qualifications and requesting that person made awaitable to ametours for the maintenance of their own

oquipment. A roply was received to the effect that our claims would receive consideration when regulations were formulated. Since then, it has been announced that rade servicement were to be licenced and a further letter has been forwarded asking for clarification of our position.

MORSE CIASS. After running continuelly for two years and nine months the closure of this class was forced upon us in March of this year owing to lack of mpils, due no doubt to the fact that the Services are now training their own operators. We are indebted to the instructors who acted in an honorary capacity, and I would take this opportunity of thanking Mesers. Quin, Marriott, Ridgowey and Mrs. Henry together with Mesers. Gampell, Callaghan and Riddell who offered their services; for their valued assistance to me in the conduct of the classes.

THE MGGAZINE... Following a suggestion from Rederel Headquarters negotiations were entered into with the low South Wales Division which resulted in the incorporation of the N.S.W. Divisional Bulletin with Ametur Radio. Through the action of the N.S.W. Division contributing towards the cost of the extra pages and also through N.S.W. supplying a larger quentity of notes and technical articles, it was possible with the August 1942 issue to increase to fourteen pages whereas previously we had been turning out an 8 - 10 page magazine. This meant that more time had to be devoted to the actual work of printing, assembling, wrapping and addressing the magazine as circulation increased radidly until now 170 copies go to New South Wales each month, and the total circulation has reached 375, copies also being sent to Amatour Organisations throughout the world.

As a result the Magazine Committee has been forced to spread the work over two consentive Saturday afternoons which ensures the regular appearance of the magazine early each month. The Institute is indebted to the members of the Magazine Committee who devote so much of their spare time to the preparation of the magazine, and thanks are also due to the New South Welse pivision for the way in which tochnical articles and notes have been supplied promptly on time seek month.

The inclusion of the feature "Slouch Hits and Forago Caps" has proved a popular item and we are indebted to Jim Corbin VKZYC for his work on these pages.

Visiting American Hams, whose addresses are known to us have been placed on the mailing list and we would be pleased to extend this courtesy to any international Hams who may be in Australian Territory.

Before leaving the subject of the Magnzine, I would like to mention that September of this year will see the completion of ten years of publication. Yes, the first issue of Amateur Radio appeared in October 1933, and its regular appearance over the succoding ten years is an achievement of which we can be justly proud.

In conclusion it is apprent that despite wer time restrictions the Institute in this State is in a healthy position. The increasing membership, the continued publication of the Magnzine and the possibilities of an Emergency Communication Neutron's show that the Institute in this State is a live body which augurs well for the future of Ban Radio in this Division.

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NOTES FROM FEDERAL HEADQUARTERS

The most important happening in Amsteur Raddo circles recently has been the announcement by the Minister for War Organisation of Industry, the Right Henorable J. J. Dedman, that Raddie Servicemen where to be licensed. Institute members will recollect that contain proposals for the organisation of Radio Servicing as an industry were mooted semetime ago. These original proposals, if agreed to by W.O.I. would have meant that Radio Servicing would have been placed in the hands of a few members of the community and one of the greatest monopolies of all time created. One particular proposals was that only Licensed Servicemen would be permitted to purchase spare parts. Federal Radquesters fully realised the injustice that would be done to hundreds of Amsteurs throughout australia if Ragulations were gazetted along these lines and a strong protest was made to the Minister and verious anomalies pointed out to him.

As a result of this protest, regulations were recently gazotted whorein the part time Surviceman was recognised and given the right to apply for a Licence and Licences would be issued to any porson provided that his qualifications were satisfactory, irrespective of membership of any trade organisation. These concussions again prove the value of the Miroless Institute of Australia to the Amatour both in page and war.

Redoral Mondquarturs has received a copy of the WKS Divisions Annual Report (published in the June issue of ".R"). The Executive Officers of this Division are to be congretulated upon the splendid work that they are doing to keep the flag flying in the West. It is indeed a feather in their cap to obtain official recegnition from the Civilian Defone authorities and receive permission for the installation of an Emergency Communication 10twork. The co-operation that has been received by F.H.W. from WKS is very much approximated and sets an example to other St.tos. Well done WKS and many thanks!

The total of the P.O.W. Fund is still growing and recently a donation of £5-5-0 was made to the Red Cross P.O.W. Fund. Parcels have been sent to Jim Edwards VKZAKE and Snew Campbell SHR. These are the only P.O.W's whose addresses are known to F.H.Q. Do you know a haw who is a P.O.W. in any country other then Eastern ages as

If so send the information on to your Divisional Secretary or the Federal Secretary, 21 Tunstall Avenue, Kingsford,

2ARE and SMR are both in Italy and the way things are shaping in the Moditorpenean both lade should have a sporting chance of coming home very seen and then F.H.Q. won't have any P.Q.W's to assist and about £40 in hand so lot's have those names, follows.

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NEW SOUTH WALES DIVISION.

The July General Meeting was held as usual at Y.M.C.A. Buildings, Sydney, and an interstate visitor in the person of Jack Coultry WKSMW was present.

Discussion centred around the various changes in the Network and admiration was expressed at the spirit in which some changes was taken.

SMV who belongs to the "Silont Service" gave a short talk on his wanderings since joining up. The speaker had a menner all of his own in describing various experiences and his talk was very much approciated.

Subscriptions still continue to come in for the F.O.W. Fund. The total of this Pund Fuderully is now rather high end the total number of P.O.W's in this State whose addresses are known is only one. Council suggests that for the time being that when forwarding donations that it be given the right to use its discretion as to allocation between the P.O.W. Fund and the A.O.F. Recently a donation of 23-3-0 was made to the Institute by Life Momber Herry Stowe and it was decided with Herry's permission that £2-12-0 be given to the A.C.F. "Adopt a Soldier Schumy". This means that one soldier will receive comforts for a period of twelve menths, whatsa follows? Hew about meking it possible for the Division to adopt another nine soldiers making a total of ten? This would cost £27-3-0. When forwarding your subscription why not add a few extra shillings to go to the A.C.F. and help repoide a few comforts for hams serving in the "Morthern Paradics".

Mombers will join with Council in expressing sympathy to Ross Wedon VKCPN upon his recent sad bureavement occasioned by the loss of his brother whilst serving with the R.A.A.F. in Scotland.

EMERGENCY COMMUNICATION NETWORK.

The past month has been rather a quiet one for the E.C.N. In the last issue of the magazine you were informed that, in future, the Notwork would be part of the Netional Emergency Services. This changeover necessitated new locations for two stations, the installation of an entirely new station and the claiming attent of one.

Those changes have now been completed and by the time you read this every location will have been tested and the Message Handling Exercises in full swing again.

Stations whose locations have been changed are VL2JH and VL2JL. VI2JH's change was quite a big one. N.E.S. required a station in the Illawarra district and as the amateurs attached to VL2JK under the 3.W.E.C.C. schome had fallen down on the job, so much so that this station had to be climinated, the Tochnical Committee were placed in rather a dilomna. Communication had to be provided from that district or the Controller of Technical Services informed that the Institute couldn't do the job it had embarked upon. This would have been a very bad advertisement for ham radio. The closest station to the new site was VL2JH seven miles away. Ern Hodgkins VK2EH. Section Leader at VL2JH, was informed of the position and he immediately volunteered to fill the breach by moving his station to the new site. This action is highly commondable and is a striking example of the real ham spirit. Now associated with 2EH are Tom Barnes VK2ABI - who also is making a considerable sacrifice in travelling to the new site "Jerry" Junk 2EY and Ken Davidson. VL2JH was on the air last Sunday and put in quite a good signal. Well done chaps and thanks a lot.

MLPJL's move was only a small one and the boys are quite happy about it and recken they'll make good their beast about "day-light being second" when the Traffic skeds are in operation again.

At last "Shorty" Higgins has realized his ambition. He's going to have a station at last! One of these days I'll get the magazine to print Dias' original application for empolment in the E.C.W. plus his comments regarding the suitability of his home location for U.H.F. Well om here's your opportunity to make good there words and knowing you I haven't any doubts that you will. VIEMF is the cull and it is further away from Control than any other station, but despite this fact it is already putting in an excellent signal. Non Richardson is associated with EIO and VIEMF will be among the leaders very soon. That is of course provided that needed does anything silly like getting merried or semothing.

Valo VLZII. Unfortunately no place could be found in the now scheme of things for this great station whose termanisations and operating procedure were a suborded example to the remainder of the Newerk. When informed of this decision Section Leader Chas, France VLZIF whilet expressing regret at the change stated that he was quite willing to go "where his services could be best utilized for the bonetic of the Network as a whole" ENF is now with Joff Thompson at VLZIG. Listen you "glass-unma" we don't want any 1,0.W. at 50 w.p.m. just break it down to 49. Alec Liste goes to VLZIF and this should his prelieve the burden (?) on 210. When transmitter from VLZIF is to be used as a stand by for VLZIF at the suboidiery Control.

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SLOUCH HATS and FORAGE CAPS

By 2YC.

Our notes, like the butter, are on the rationed side this month, but I think there is enough to go through and there is always next month to got another batch - so chaps write those few lines NOV.

The most welcome thing about this month's notes, is, that there is a batch from WK 6 - real DX - D6 6FL OM - please keep them coming--there's nothing more depressing than two pages of notes almost all about one State.

Have just heard that VK6AF Alan Foxoroft has received his commission. Now Pilot Officer, and he must be one of the youngest Officers in the Service. A teacher in private life Alan is now instructing Instructors - Hi I Congrets Alan.

VK6MW - Flight Lieut. "Bill" Weston over this way last year, now somewhere in Queensland. How about another visit, Bill?

VK6JR Glad Clinch now Warrant Officer. Has spent some time up Worth. Ask Glad what it is like looking for Diamonds - hi!

Bill Morris back again in the West. Bill was VK6MM and is now Staff Seargent. Want some news from you Bill! How about it?

C. G. Morrison another VKG over East somewhere. I am told that he is in Queensland. Sorry Gyril I forgot that Pilot Officer on the front end. Congrats and lots have some news.

In conclusion "fellers" - 2 YC wants some dope for this column and we want to see that he gets it, so you VK6 boys wherever you may be, send it along.

Hold it! Have just realised that VKGRH is in New Guinea. Ray must be with the Fuzzie Wuzzies. I'll bet he will tell a grand tale when he returns on leave. That shouldn't be long.

And one more for good measure - VK6FH - brother to Ray 6RH - is now Pilot Officer somewhere in Queensland. That's all - 73's - 6FL.

Have you heard that story about one of our Hams off one of His Majestr's Australian Auxiliary Cruisers about to go on fourbond days leave, who went to have a last "look" at the rig. But there were appending other hams on that ship, as oven the key was tied down

WKSXZ - after spending two years oversees returned some months ago to work as we've found out, on hush-hush gare - someone skys he transmits in his sleep - from what we gather from the note his modulation on all bends is pluperfect, with distortion.

3RD - Jack Dune recently went somewhere up North.

GLA one Jack James has just about set a record for a trip from Porth to Melbourne - he only travelled 4500 miles detouring around good old Aussie. Other than that he has no news but hopes to be returning to the west soon.

3AF - is up in Alice Springs.

with steel hawsers and anchor chain. Hi!

Captain Bennett a VK3 Ham was married on his last leave after being to three continents and N.G. in four years of service.

3DA and 3MQ are still up in VK4.

SRD os over in Porth...some of the boys want to know how the "Swan" is .. don't know if they mean the River or something clas. Major Whyte is doing fine up in N.G. he likes to be alone.

Morry Guick SK, who joined the R.A.A.F. prior to the outbreak of wer on the engineering side has climbed up through the ranks to the rank of W.O. Has spent considerable time in Dawwin and up in N.G. When seen he was about to take off for all points north.

Neil Templeton 3HG, another of the boys to join up right at the outbreak of war has been in the sigs office at air Board over since-

has also reached the rank of W.O.

The other night a laddle wandered into the shop with a prescription and while I was making it up he asked who we 2°C around here. (43L card on display for such fish. Hi!) He turned out to be 4KM just about to depart with the R.A.A.F. for far places. Of course, as luck would have it he was in a hurry being a visitor at some relations out here and I was busy. Not having heard from him as arranged I moss he is another who her gone places.

We was able to tell me that AXO in the Marchant newy has been tropeded twice "already". Saw plorty of service in the Mod, heving been among other places at the evacuations of Groces and Crotes (MEZO and NEZOT are both now on the "Westralia" having first served on the "Kanimbla". Both Telegraphists and both when you road this headed into the Wer Zone. I believe ARF is taking his rig and ship

along with them.

I heard of a VK4 Ham (in the Sorvice) who is on loave and was found searching VIB for Wireless Gear, and ever since I ve been a wondering if he knows what I don't, and its time to get the dust off

VK3TC/3DU - D. Bowie recently joined the ranks of the Benedicts. Up till now he has been most familiar with telephone trunk line sorvices and country trains, and in between times works on or dreams

of Xmitters, after the War.

of Amitters, after the way as a hush hush worker on unknown goar and if words were worth severages he wouldn't give you a farthing. IS! (Oh, woll, if its the same S60 whom I used to hear on 25me way back in 1920, he is still in the front of HF DX. HI! 27C) We KE After a long spell in NF has just come down from Darwin, and

var as alter a long spoil in ar has just come down from parkin, an came by plane too. At the moment he is on leave, and making the most of it

most of it.

VKSRC was located in Madeng when the gun went off and stayed long nough to soo the Jape blow his house and hospital up, so I gloos you can say he has been in the thick of it. When soon by 500 he was waiting to be discharged and after ards his that is to be VIM. VKSYF is the "fortunate" nophow of an "unfortunate" uncle 577. I think the Adjectives come thus. Ken is being certed all over the place per plane to fix up W/T goar and oven eateles lots of fish, while all lucto can find to do is "say his prayers overy night that Stawell will got an ECN station of some sort silotted to it. "Bi! I reaken those adjectives aren't descriptive enough, em., 200.

Thanks overybody...your column is beginning to "oreal" a lets hope you got it past the walking to the running stage protty qualkly. Remember notes to Div. Secretaries or direct to Jim Gorbin VKETO.

78 Maloney St. Mascot. if you are in Sydney, 'phone Mulo92.

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Meeting Night-First Tuesday in each month.

THE WIRELESS INSTITUTE OF AUSTRALIA

N.S.W. DIVISION Registered Office:

21 TUNSTALL AVENUE. KINGSFORD Telephone: FX 3305

Meeting Place: Y.M.C.A. Buildings, Pitt Street, Sydney. SUBSCRIPTION RATES:

Service Membership 7/6

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